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<u>S7276</u>	<u>U</u>	PGPB,USPT,USOC,EPAB,JPAB,DWPI	substituted styrene same triblock copolymer or triblock polymer	2004- 06-03 08:00:51	
<u>S7275</u>	<u>U</u>	PGPB,USPT,USOC,EPAB,JPAB,DWPI	substituted styrene and triblock copolymer or triblock polymer	2004- 06-03 08:00:24	
<u>S7274</u>	<u>U</u>	PGPB,USPT,USOC,EPAB,JPAB,DWPI	substituted styrene	2004- 06-03 07:59:46	
<u>S7273</u>	<u>U</u>	PGPB,USPT,USOC,EPAB,JPAB,DWPI	(varnish or paint) same triblock copolymer or triblock polymer	2004- 06-03 07:02:53	
<u>S7272</u>	<u>U</u>	PGPB,USPT,USOC,EPAB,JPAB,DWPI	elastomeric article and triblock copolymer or triblock polymer not elastomeric article same triblock copolymer or triblock polymer	2004- 06-03 06:38:02	
<u>S7271</u>	<u>U</u>	PGPB,USPT,USOC,EPAB,JPAB,DWPI	elastomeric	2004- ----	

			article same	06-03
			triblock	06:36:13
			copolymer or	
			triblock	
			polymer	
<u>S7270</u>	<u>U</u>	USPT	elastomeric	2004-
			article and	06-03
			triblock	06:35:52
			copolymer or	
			triblock	
			polymer	
<u>S7269</u>	<u>U</u>	USPT	elastomeric	2004-
			article same	06-03
			triblock	06:25:54
			copolymer or	
			triblock	
			polymer	
<u>S7268</u>	<u>U</u>	USPT	triblock	2004-
			copolymer or	06-03
			triblock	06:21:03
			polymer	
<u>S7267</u>	<u>U</u>	USPT	elastomeric	2004-
			article same	06-03
			cosmetic	06:19:35
<u>S7266</u>	<u>U</u>	USPT	5798092.pn.	2004-
				05-27
				13:43:15
<u>S7265</u>	<u>U</u>	PGPB,USPT,USOC,EPAB,JPAB,DWPI	triblock	2004-
			copolymer or	05-27
			tri block	13:03:53
			copolymer	
			and	
			424/401.ccls.	
<u>S7264</u>	<u>U</u>	PGPB,USPT,USOC,EPAB,JPAB,DWPI	triblock	2004-
			copolymer or	05-27
			tri block	13:03:37
			copolymer	
			and	
			(424/401.ccls.	
			or cosmetic)	
<u>S7263</u>	<u>U</u>	PGPB,USPT,USOC,EPAB,JPAB,DWPI	triblock	2004-
			copolymer or	05-27
			tri block	13:03:19
			copolymer	

Reference: Polymer Properties

Thermal Transitions of Homopolymers: Glass Transition & Melting Point

Literature values for the glass transition temperature, (T_g), and melting temperature, (T_m), are given in Table I for the more common homopolymers. Polymers are listed by the repeating unit in the polymer chain. These polymers and corresponding monomers are available from Aldrich. Literature values for a given material can vary widely. The values reported

in Table I have been taken from various sources and represent the most commonly reported numbers.¹ Several factors can influence the reported values, including molecular weight, molecular weight distribution, tacticity, thermal history, purity, and method of measurement.

Table I: Thermal Transitions of Homopolymers: Glass Transition (T_g) & Melting Point (T_m) Temperatures

Repeating Unit	T_g (°C)	T_m (°C)	Repeating Unit	T_g (°C)	T_m (°C)
Acenaphthylene	214		<i>N,N</i> -Dimethylacrylamide	89	
Acetaldehyde	-32	165	Dimethylaminoethyl methacrylate	19	
4-Acetoxystyrene	116		2,6-Dimethyl-1,4-phenylene oxide	167	
Acrylamide	165		Dimethylsiloxane	-127	-40
Acrylic acid	105		2,4-Dimethylstyrene	112	
Acrylonitrile, syndiotactic	125	319	2,5-Dimethylstyrene	143	
Allyl glycidyl ether	-78		3,5-Dimethylstyrene	104	
Benzyl acrylate	6		Dodecyl acrylate	-3	
Benzyl methacrylate	54		Dodecyl methacrylate	-65	
Bisphenol A- <i>alt</i> -epichlorohydrin	100		Dodecyl vinyl ether	-62	
Bisphenol A terephthalate	205		Epibromohydrin	-14	
Bisphenol carbonate	174		Epichlorohydrin	-22	
Bisphenol F carbonate	147		1,2-Epoxybutane	-70	
Bisphenol Z carbonate	175		1,2-Epoxydecane	-70	
4-Bromostyrene	118		1,2-Epoxyoctane	-67	
<i>cis</i> -Butadiene	102	1	2-Ethoxyethyl acrylate	-50	
<i>trans</i> -Butadiene	-58	148	4-Ethoxystyrene	86	
1-Butene	-24	171	Ethyl acrylate	-24	
<i>N-tert</i> -Butylacrylamide	128		Ethyl cellulose	43	
Butyl acrylate	-54		Ethylene, HDPE	-125	130
<i>sec</i> -Butyl acrylate	-26		Ethylene adipate	-46	54
<i>tert</i> -Butyl acrylate	43-107	193	Ethylene- <i>trans</i> -1,4-cyclohexyldicarboxylate	18	-
2- <i>tert</i> -Butylaminoethyl methacrylate	33		Ethylene isophthalate	51	
Butyl glycidyl ether	-79		Ethylene malonate	-29	
Butyl methacrylate	20		Ethylene 2,6-naphthalenedicarboxylate	113	
<i>tert</i> -Butyl methacrylate	118		Ethylene oxide	-66	66
4- <i>tert</i> -Butylstyrene	127		Ethylene terephthalate	72	265
<i>tert</i> -Butyl vinyl ether	88	250	2-Ethylhexyl acrylate	-50	
Butyl vinyl ether	-55	64	2-Ethylhexyl methacrylate	-10	
ϵ -Caprolactone	-60		2-Ethylhexyl vinyl ether	-66	
Cellulose nitrate	53		Ethyl methacrylate	65	
Cellulose tripropionate			Ethyl vinyl ether	-43	86
<i>cis</i> -Chlorobutadiene	-20	80	4-Fluorostyrene	95	
<i>trans</i> -Chlorobutadiene	-40	101	Formaldehyde	-82	181
2-Chlorostyrene	119		Hexadecyl acrylate	35	
3-Chlorostyrene	90		Hexadecyl methacrylate	15	
4-Chlorostyrene	110		Hexyl acrylate	57	
Chlorotrifluoroethylene	52	214	Hexyl methacrylate	-5	
2-Cyanoethyl acrylate	4		2-Hydropropyl methacrylate	76	
Cyclohexyl acrylate	19		Hydroquinone- <i>alt</i> -epichlorohydrin	60	
Cyclohexyl methacrylate	92		2-Hydroxyethyl methacrylate	57	
Cyclohexyl vinyl ether	81		Indene	85	
2,6-Dichlorostyrene	167		Isobornyl acrylate	94	
Diethylaminoethyl methacrylate	20		Isobornyl methacrylate	110	

¹See catalog numbers Z41,247-3, Z41,255-4, Z22,171-6, Z40,603-1 and Z22,195-3 in the *Book section*.

Reference: Polymer Properties

Thermal Transitions of Homopolymers: Glass Transition & Melting Point (continued)

Table I: Thermal Transitions of Homopolymers: Glass Transition (T_g) & Melting Point (T_m) Temperatures (continued)

Repeating Unit	T_g (°C)	T_m (°C)	Repeating Unit	T_g (°C)	T_m (°C)
Isobutyl acrylate	-24		<i>p</i> -Phenylene terephthalamide	345	
Isobutylene	-73		Phenylene vinylene	80	380
Isobutyl methacrylate	53		Phenyl methacrylate	110	
Isobutyl vinyl ether	-19	165	Phenyl vinyl ketone	74	
<i>cis</i> -Isoprene	-63	28	Potassium acrylate	194	
<i>trans</i> -Isoprene	-66	65	Propylene, atactic	-13	
<i>N</i> -Isopropylacrylamide	85-130		Propylene, isotactic	-8	176
Isopropyl acrylate, isotactic	-11	162	Propylene, syndiotactic	-8	
Isopropyl methacrylate	81		Propylene oxide	-75	66
Methacrylic acid	228		Propyl vinyl ether	-49	76
Methacrylic anhydride	159		Sodium acrylate	230	
Methacrylonitrile	120		Sodium methacrylate	310	
2-Methoxyethyl acrylate	-50		Styrene, atactic	100	
4-Methoxystyrene	113		Styrene, isotactic	100	240
Methyl acrylate	10		Tetrabromobisphenol A carbonate	157	
Methyl cellulose			Tetrafluoroethylene	117	327
Methyl glycidyl ether	-62		Tetrahydrofuran	-84	
Methyl methacrylate, atactic	105, 120		Tetramethylene adipate	-118	
Methyl methacrylate, syndiotactic	115	200	Tetramethylene terephthalate	17	232
4-Methylpentene	29	250	Thio-1,4-phenylene	97	285
Methylphenylsiloxane	-86		2,2,2-Trifluoroethyl acrylate	-10	
Methylstyrene	20		Trimethylene oxide	-78	
3-Methylstyrene	97		Trimethylsilyl methacrylate	68	
4-Methylstyrene	97		2,4,6-Trimethylstyrene	162	
Methyl vinyl ether	-31	144	Vinyl acetal	355	82
Nylon 4,6 (tetramethylene adipamide)	43		Vinyl acetate	30	
Nylon 6 (-caprolactam)	52	225	Vinyl alcohol	85	220
Nylon 6,6 (hexamethylene adipamide)	50	265	Vinyl benzoate	71	
Nylon 6,9 (hexamethylene azelamide)	58		Vinyl 4- <i>tert</i> -butylbenzoate	101	-
Nylon 6,10 (hexamethylene sebacamide)	50	227	Vinyl butyral	322	49
Nylon 6,12 (hexamethylene dodecane-diamide)	46		Vinyl carbazole	227	320
Nylon 11 (ω -undecanamide)	42	189	Vinyl chloride	81	227
Nylon 12 (ω -dodecanamide)	41	179	Vinyl cyclohexanoate	76	
1-Octadecene	55		Vinylferrocene	189	
Octadecyl methacrylate	-100		Vinyl fluoride	41	200
1-Octene	-63		Vinyl formal	105	
Octyl methacrylate	-20		Vinylidene chloride	-18	200
Oxy-4,4'-biphenyleneoxy-1,4-phenylenesulfonyl-1,4-phenylene	230	290	Vinylidene fluoride	-40	171
Oxy-1,4-phenylenesulfonyl-1,4-phenyleneoxy-1,4-phenyleneisopropylidene-1,4-phenylene	165	190	2-Vinyl naphthalene	151	
Oxy-1,4-phenylenesulfonyl-1,4-phenylene ether	214	230	Vinyl pivalate	86	
<i>p</i> -Phenylene isophthalamide	225	380	Vinyl propionate	10	
			2-Vinylpyridine	104	
			4-Vinylpyridine	142	
			1-Vinyl-2-pyrrolidone	54	
			Vinyl trifluoroacetate	46	